

COMPOST 'TOTALS' ANALYSIS REPORT

1 sample supplied by Ignite Fertilizers on the 22 October 2021. Lab Job No. M2673.
 Analysis requested by John Lathouras. **Your Job: S3-BT.**

PO box 141 BUNDABERG QLD 4670

		Product Name: Product Type: Manufacturing Site: Manufactured Date: Application: Test Applicable:	Sample 1 S3-BT Pellets Ignite Fertilisers CA-PACK-001	Guideline AS4454:2012 Composted Product
Parameter	Method Reference		M2673/1	
Moisture Content (%)	**Inhouse S2 (105°C)		11	> 25
pH	Rayment & Lyons 2011 - 4A1 (1:5 Water)		6.31	> 5
Electrical Conductivity (dS/m)	Rayment & Lyons 2011 - 3A1 (1:5 Water)		21.44	< 10
Total Carbon (%)	Inhouse S4a (LECO Trumac Analyser)		40.3	≥ 20
Total Nitrogen (%)			5.07	≥ 0.8
Carbon/Nitrogen Ratio	**Calculation - Total Carbon/Total Nitrogen		7.9	..
Estimated Organic Matter (% OM)	**Calculation - Total Carbon x 1.7		68.5	..
Total Calcium (%)			2.99	..
Total Magnesium (%)			0.54	..
Total Potassium (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia		3.84	..
Total Sodium (%)			0.55	< 1 Na
Total Sulphur (%)			1.40	..
Total Phosphorus (%)	Rayment & Lyons 2011 - 17C1 Aqua Regia		1.61	≤ 0.1 P
Total Zinc (mg/kg)			360	< 300 Zn
Total Manganese (mg/kg)			441	..
Total Iron (mg/kg)			2,249	..
Total Copper (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia		141	< 150 Cu
Total Boron (mg/kg)			36.8	< 100 B
Total Silicon (mg/kg)			1,142	..
Total Aluminium (mg/kg)			675	..
Total Molybdenum (mg/kg)			8.35	..
Total Cobalt (mg/kg)	Rayment & Lyons 2011 - 17C1 Aqua Regia		1.39	..
Total Selenium (mg/kg)			1.24	< 5 Se
Nitrogen/Sulphur Ratio	**Calculation - Total Nitrogen/Total Sulphur		3.6	..
Nitrogen/Phosphorus Ratio	**Calculation - Total Nitrogen/Total Phosphorus		3.1	..
Nitrogen/Potassium Ratio	**Calculation - Total Nitrogen/Total Potassium		1.3	..
Salmonella spp (Absent in 25 g)			Not detected	Absent in 25 g
E. coli (MPN/g)	Sub** - Symbio Laboratories B1087862		Not detected	< 100 MPN/g
Listeria spp (Absent in 50 g)			Not detected	..

Notes:

- All analysis is dry weight – Samples reported on an oven dried basis at 105°C (testing conducted on finely ground sample dried at 40°C).
- Methods from Rayment and Lyons, 2011. *Soil Chemical Methods - Australasia*. CSIRO Publishing: Collingwood.
- Indicative guidelines are based on those in AS4454:2012 for a composted product.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Conversions for 1 mg/kg = 1 ppm; 1% = 10,000 ppm
- Conversions to kg/ha = mg/kg x 2.24
- The chloride calculation of Cl mg/L = EC x 640 is considered an estimate, and most likely an over-estimate
- Testing completed in a NATA accredited laboratory.
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full. Results only relate to the item tested.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (refer scu.edu.au/eal/t&cs or on request).
- This report was issued on 02/11/2021. Reissued plate count results on 12/11/21. Reissued without plate count results on the 21/1/22.

Quality Checked: Brian Smith
 Compost & Landscape Soils Co-ordinator